

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	0	semi adj insulating adj gallium adj nitride adj substrate	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/25 11:54
S2	3119	semi adj insulating adj substrate	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/16 14:02
S3	7784	gallium adj nitride	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/16 08:38
S4	79	S2 and S3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/16 14:02
S5	0	intrinsic same gallium adj nitride	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/16 14:51
S6	2	("20020100916").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/16 15:27
S7	20	intrinsic adj gallium adj nitride	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/16 15:27
S8	8	("5686738").URPN.	USPAT	OR	ON	2004/11/16 15:46

## EAST Search History

S9	64	("3683240"   "3819974"   "3829556"   "4144116"   "4153905"   "4396929"   "4473938"   "4476620"   "4589015"   "4608581"   "4615766"   "4792467"   "4819057"   "4819058"   "4855249"   "4866007"   "4897149"   "4911102"   "4918497"   "4946547"   "4946548"   "4960728"   "4966862"   "4966867"   "4983249"   "5005057"   "5006908"   "5010033"   "5015327"   "5027168"   "5042043"   "5063421"   "5068204"   "5076860"   "5093576"   "5097298"   "5117267"   "5119540"   "5122845"   "5140385"   "5173751"   "5178911"   "5182670"   "5192419"   "5200022"   "5205905"   "5210051"   "5218216"   "5237182"   "5243204"   "5248631"   "5272108"   "5290393"   "5298767"   "5304820"   "5306662"   "5307363"   "5313078"   "5323022"   "5329141"   "5334277"   "5338944"   "5359345"   "5385862").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2004/11/16 16:00
S10	93	boule and gallium adj nitride	US-PGPUB; USPAT; USOCR	OR	ON	2004/11/16 16:00
S11	84	(cr or chromium or molydenmum or mo or tungsten or w or cu or copper or zinc or zn or platinum or pt) and S10	US-PGPUB; USPAT; USOCR	OR	ON	2005/02/16 08:38
S12	0	transistion adj metal and S11	US-PGPUB; USPAT; USOCR	OR	ON	2004/11/16 16:02
S13	54	dopant and S11	US-PGPUB; USPAT; USOCR	OR	ON	2004/11/16 16:09
S14	35	insulating near gallium adj nitride	US-PGPUB; USPAT; USOCR	OR	ON	2004/11/16 16:09

## EAST Search History

S15	11	("5284394"   "5344948"   "5385862"   "5398641"   "5464656"   "5602418"   "5657335"   "5786233"   "5976412"   "6080668"   "6291318").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2004/11/16 16:12
S16	0	("6544867").URPN.	USPAT	OR	ON	2004/11/16 16:15
S17	92934	transition adj metals	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/16 19:10
S18	20831	gan or gallium adj nitride	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/16 19:10
S19	615	S17 and S18	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/16 19:10
S20	248	insulating and S19	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/16 19:10
S21	548	(cobalt or co or copper or cu or nickel or ni) and S19	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/16 19:11
S22	234	S20 and S21	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/16 19:11
S23	148	(resistance or resistivity) and S22	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/16 19:12
S24	116	substrate and S23	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/16 19:13

## EAST Search History

S25	3	kyma adj technologies	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/17 14:31
S26	2	free adj standing and S25	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/17 14:31
S27	534	(gan or gallium adj nitride) same (co or cobalt)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/17 15:54
S28	28	deep and impurity and S27	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/17 15:54
S29	85	(gan or gallium adj nitride) same (cobalt)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/17 15:54
S30	0	deep and impurity and S29	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/17 15:54
S31	8288	gallium adj nitride	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/16 08:38
S32	3755	(cr or chromium or molydenmum or mo or tungsten or w or cu or copper or zinc or zn or platinum or pt or co or cobalt or ni or nickel or fe or iron or mn or manganese) and S31	US-PGPUB; USPAT; USOCR	OR	ON	2005/02/16 08:40
S33	347	(hyvpe or hydride adj vapor adj phase adj epitaxy) and S32	US-PGPUB; USPAT; USOCR	OR	ON	2005/02/16 08:43
S34	39	semi adj insulating and S33	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/16 08:43

## EAST Search History

S35	12	diameter near4 gallium adj nitride	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/22 11:37
S36	292	diameter same gallium adj nitride	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/22 11:56
S37	78	free adj standing adj gan or free adj standing adj gallium adj nitride	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/22 11:58
S38	2863452	diameter	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/22 11:59
S39	50	S37 and S38	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/22 11:59
S40	2	("6596079").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/22 13:28
S41	437325	large adj area adj gan adj substrate or large adj area adj gan wafer or large adj area adj gallium adj nitride	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/04 11:31
S42	1421	iron adj doped or fe adj doped	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/04 11:31

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S43	344	S41 and S42	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/04 11:31
S44	10	("3421952").URPN.	USPAT	OR	ON	2006/01/04 11:42
S45	14	semi adj insulating adj gallium adj nitride	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/04 11:42
S46	41	("4144116").URPN.	USPAT	OR	ON	2006/01/04 11:50
S47	243	gan near4 resistivity	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/11 11:03
S48	37908	impurity adj concentration	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/11 11:04
S49	50	S47 and S48	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/11 11:04
S50	72	semi-insulating adj gan or semi adj insulating adj gallium adj nitride	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/11 11:50
S51	718	257/76	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/25 12:27
S52	1080	438/479	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/25 12:27